Rec'd Sept 29th
Ans Sunday

Sag. graminea
forma pleiotaxa
natans
var lorata

262 Purchase St. Boston, Mass
Sept. 27, 1877.

Dr. Geo. Engelmann,

Dear Sir,

Accompanying this I send some specimens of a Sagittaria which I have not been able to make out satisfactorily, and which no one that I have consulted seems able to identify. I have observed the plant for several years, and perhaps the following remarks may not be superfluous.

It grows abundantly in the Charles and Neponset rivers near this city in water from two to four feet deep in company with Potamogeton natans P. lonchites, P. Spirillus and Naias,

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cm
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appearing always truly aquatic
with no terrestrial or sub-
terrestrial forms so far as
I have observed. It is worthy
of note that the only Sagittaria
on the banks is S. variabilis.
The whole plant is submersed
excepting the flowers which
expand one or two at a time
on the surface as shown
in the enclosed sketch. The
root is of tough fibres, and
stoloniferous; scape 2° to 4° long
terete or very slightly flattened;
pedicels 1' to 4' long, fertile ped-
icels stouter and reflexed in
fruit, about the same length
of the barren pedicels of the
same whorl; only one or two
flowers of the lower whorl
fertile, all three pedicels
of this whorl much longer

than those of the upper ones;
number of whorls two to six,
distant; raceme finally 18' or
more in length; bracts
linear-lanceolate, acute, soon
perishing; stamens seven
(very rarely eight) arranged
thus ⁘; filaments bottle-shaped
glabrous, slightly rugose or granu-
lar under the lens and finely
striate, not glandular or pu-
bescent. Unfortunately I have
not been able to obtain mature
fruit as I have it apparently
decays before ripening. The
immature achenia appear to
me as in the sketch. Leaves
2° to 4° long consisting generally
of only phyllodia 1 line wide,
indistinctly one-nerved, rarely
with a small lanceolate
blade 1½' long and ¼' wide, three

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nerved with cross veinlets.
Begins to flower in the latter
part of June and continues
through July.

Specimens sent to Cambridge
were placed with graminea,
by whose authority I dont
know, but the filaments
do not agree at all with
graminea it seems to me-

Hoping you will be so
kind as to give me the
name I am Very respectfully
C. E. Faxon

bulbiferous stolons!
deeply submerged in flowing tide water will stand
the winter frosts, while near shore they
might be killed

Rec Dec 3d

7

Jamaica Plain, Mass
Nov 29, '81.

Dear Sir. Grant?

I am glad
to hear again of that
Sagittaria. It was diff-
icult for one familiar
with the growing plant
to believe it any form
of gramminea. In ac-
cordance with your
suggestion four years
ago I planted a number
of specimens in Jolt
and had them tried
with diffrent degrees of
immersion at the green-
houses of the Bussey Inst.
The plants are still living
but have never flowered.
In regard to the native

habitat, I assume you the places where I have found it both in the Neponset and Charles rivers are ~~four~~ miles above any tidal influence

What I took to be the same plant was shown me by Mr Robinson collected in the Ipswich river near Salem, Mass. and I gave him your determination. Fide Flora of Essex Co.

Very truly yours
C. E. Faxon

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GEORGE ENGELMANN PAPERS

My attention was first called to this plant many yrs ago by Mr. E. H. Hitchings of Boston

I enclose the notes I made. I have looked

for fruit every summer excepting the present one but always without success.

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Rec Febr 5 13

ARNOLD ARBORETUM, HARVARD UNIVERSITY,

DIRECTOR'S OFFICE,

Brookline, Mass., Jan 31 1883

Dr. Geo. Engelmann,

Dear Sir,

I have been arranging Prof. Sargent's pamphlets, and find he is lacking of your papers the following —

On the Character of the Vegetation of S. W. Texas
Proc. Am. Assoc. 185-1.

On the Geology & Nat. Hist. of the upper Missouri by F. V. Hayden
Botany by G. Engelmann
Trans. Am. Phil. Soc. 1863.

Ueber einige N. Amer. Pinus-arten etc.
Linnaea 1864.

Ueber die Charaktere der Abietineae
Bot. Zeit. 1868.

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The true Grape-vines of the old U.S.

Am. Naturalist. 1872.

Al. Braun on the N. Am species of Vitis and Marsilea with notes by G. Engelmann

Am. Jour. Sci. 1847.

Prof. Sargent thought you might perhaps supply some of these.

Last summer you were kind enough to say that perhaps you could send me some of your papers for my own collection if I would indicate what I lacked. I have your articles published in Silliman's Jour. and in the government reports except the Wislizenus Report. What I desire are the De Antholysi Rhodromus and the papers in

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Trans. St. Louis Acad. except the following which I have viz - Am. Junipers - ~~Pinus~~ Revision of Pinus, Genus Isoetes and the first part of the Oaks.

I have been collecting papers on Am. Botany for many years, and you may feel sure that anything you can furnish with me will be greatly appreciated.

Very truly yours

C. E. Faxon

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GEORGE ENGELMANN PAPERS

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